



High-Temperature Coatings Offer Energy Savings

Ames Research Center

***Emisshield
Blacksburg, Virginia***

NASA Technology

- ◆ As the U.S. X-Plane Program continued to break new boundaries, NASA researched new thermal protection materials for reusable spacecraft
- ◆ This research resulted in the Protective Ceramic Coating Material (PCCM), a thin and lightweight coating that protects against extreme temperatures



Partnership

- ◆ When NASA made PCCM available, Emisshield licensed the coating for research and development
- ◆ After testing its capabilities, Emisshield licensed PCCM to include all applications except space and space vehicles
- ◆ From the base license the company developed two new patents, including technology to apply PCCM more easily to metal surfaces with a spray gun

Benefits

- ◆ Emisshield (the company's main product line) works to protect and increase the efficiency of any place that requires heat for production
- ◆ Emisshield saves up to 15 percent on energy and boosts productivity by up to 15 percent
- ◆ Furnaces that have been improved include those making windshields, bread, and wine bottles